

<110> Arima, Hidetoshi

Tsuchiya, Seishi

Hirata, Takahiro

Akiyama, Katsuhiko

Goto, Takashi



<120> Antisense Oligonucleotide Inhibiting IL-10 Protein Expression

<140> US 09/720,636

<141> 2000-12-22

<150> PCT/JP99/03315

<151> 1999-06-22

<160> 9

<210> 1

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Corresponding to from +176 to +193 of SEQ ID NO: 9

<400> 1

agaaagtctt cactctgc

18

<210> 2

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Corresponding to from +181 to +198 of SEQ ID NO:9

<400> 2

ttgaaagaaa gtcttcac

18

<210> 3

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Corresponding to from +367 to +384 of SEQ ID NO:9

<400> 3

ggtcttcagg ttctccc

18

<210> 4

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Corresponding to from +637 to +654 of SEQ ID NO:9

<400> 4

ctgggtcagc tatcccag

18

<210> 5

BEST AVAILABLE COPY

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Corresponding to from +915 to +932 of SEQ ID NO:9

<400> 5

gcttggaatg gaagcttc

18

<210> 6

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Corresponding to from +1246 to +1263 of SEQ ID NO:9

<400> 6

ggctggtag gaactcct

18

<210> 7

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Corresponding to from +1249 to +1266 of SEQ ID NO: 9

<400> 7

BEST AVAILABLE COPY

ccaggctggt taggaact

18

<210> 8

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Mouse IL-10 protein gene

<400> 8

aggtcctgga gtccagca

18

<210> 9

<211> 1601

<212> DNA

<213> Artificial Sequence

<220>

<223> cDNA of Human IL-10 protein

<400> 9

aaaccacaag acagactgc aaaagaaggc atgcacagct 40

cagcactgct ctgttgctg gtcctcctga ctggggtgag 80

ggccagccca ggccagggca ccagctctga gaacagctgc 120

accacttcc caggcaacct gcctaactg cttcgagatc 160

tccgagatgc cttcagcaga gtgaagactt tcttcaaat 200

gaaggatcag ctggacaact tgttgtaaa ggagtccttg 240

BEST AVAILABLE COPY

ctggaggact ttaagggta cctgggttgc caagccttgt 280
ctgagatgat ccagttttac ctggaggagg tgatgcccc 320
agctgagaac caagaccag acatcaaggc gcatgtgaac 360
tccctggggg agaacctgaa gaccctcagg ctgaggctac 400
ggcgctgtca tcgatttctt ccctgtgaaa acaagagcaa 440
ggccgtggag caggtgaaga atgcctttaa taagctcaa 480
gagaaaggca tctacaaagc catgagtgag ttgacatct 520
tcatcaacta catagaagcc tacatgacaa tgaagatacg 560
aaactgagac atcagggtgg cgactctata gactctagga 600
cataaattag aggtctccaa aatcggatct ggggctctgg 640
gatagctgac ccagcccctt gagaaacctt attgtacctc 680
tcttatagaa tatttattac ctctgatacc tcaaccccca 720
ttctattta ttactgagc ttctctgtga acgatttaga 760
aagaagccca atattataat tttttcaat atttattatt 800
ttcacctgtt ttaagctgt ttccataggg tgacacacta 840
tggtatttga gtgttttaag ataaattata agttacataa 880
gggaggaaaa aaaatgttct ttggggagcc aacagaagct 920
tccattccaa gctgaccac gctttctagc tgttgagctg 960
ttttccctga cctccctcta atttatcttg tctctgggct 1000
tggggcttcc taactgctac aaatactctt aggaagagaa 1040
accaggggagc ccctttgatg attaattcac ctccagtg 1080
ctcgagggga ttcccctaac ctcatcccc aaccactca 1120
ttctgaaag ctgtggccag cttgttattt ataacaacct 1160

BEST AVAILABLE COPY

aaatttggtt ctaggccggg cgcggtggt cacgcctgta 1200
atcccagcac ttgggagggc tgaggcgggt ggatcacttg 1240
aggtcaggag ttcctaacca gcctggtcaa catggtgaaa 1280
ccccgtctct actaaaaata caaaaattag ccgggcatgg 1320
tggcgcgcac ctgtaatccc agctacttgg gaggctgagg 1360
caagagaatt gcttgaacc aggagatgga agttgcagtg 1400
agctgatac atgccctgt actccagcct gggtgacaga 1440
gcaagactct gtctcaaaaa aataaaaaata aaaataaatt 1480
tggttctaata gaactcagt ttaactaga atttattcaa 1520
ttctctggg aatgttacat tgttgtctg tctcatagc 1560
agattttaat ttgaataaa taaatgtatc ttattcacat 1600
c 1601

BEST AVAILABLE COPY